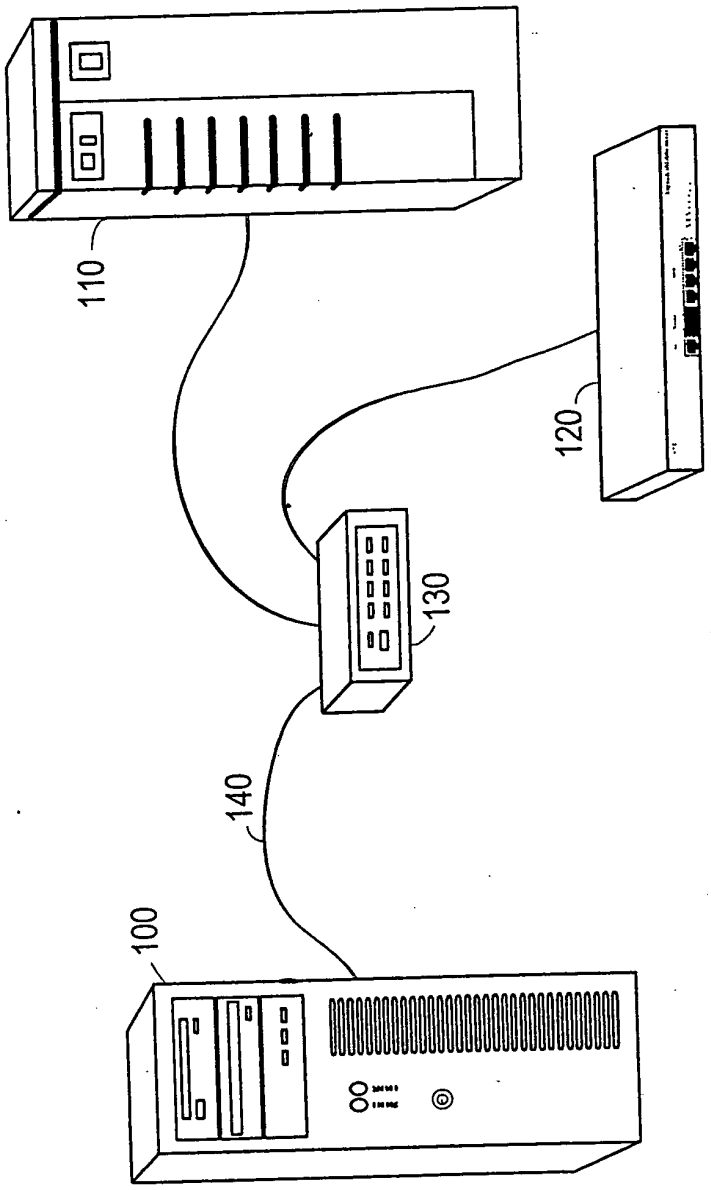

FIG. 1

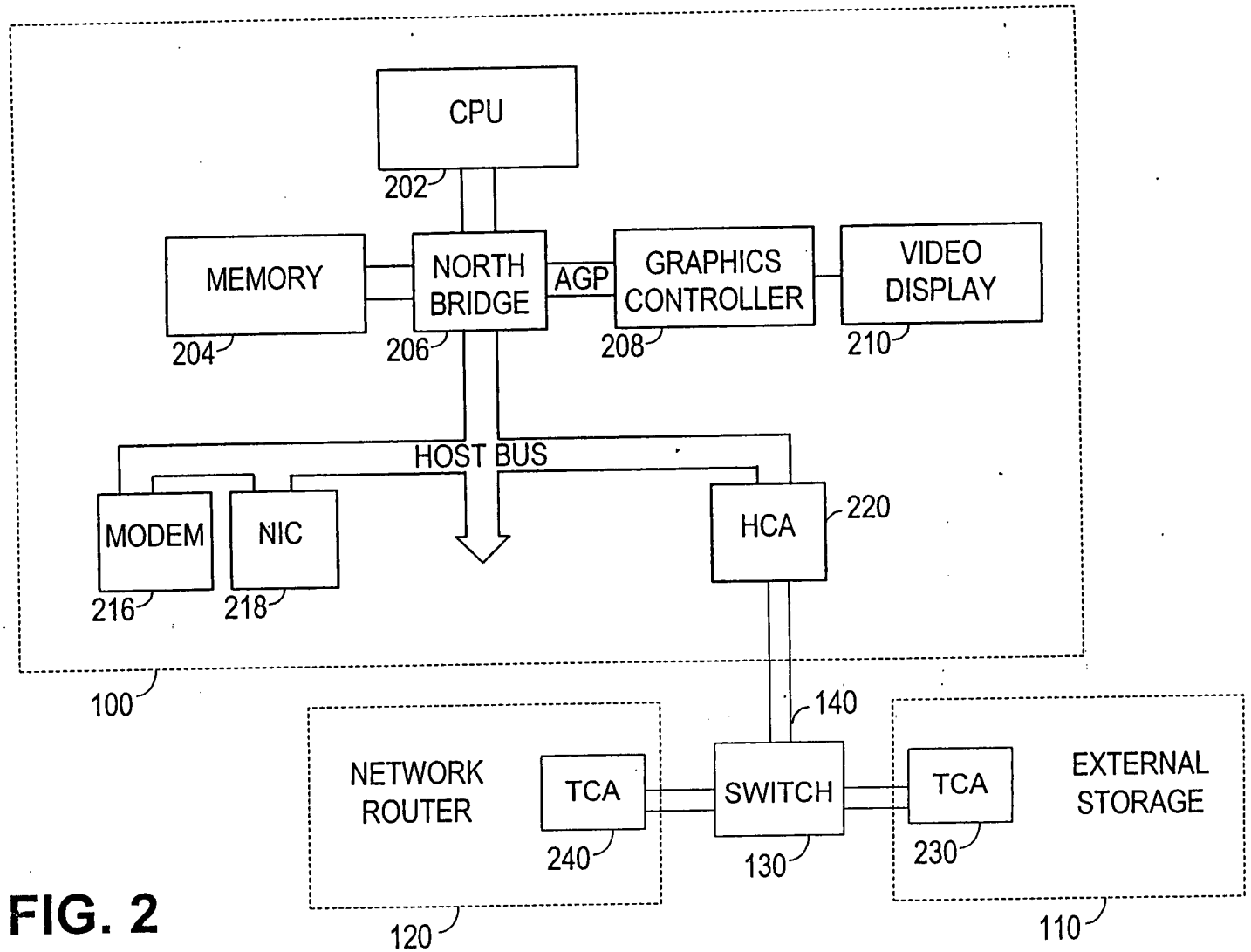
CPU
202
MEMORY
204
NORTH BRIDGE
206
AGP
GRAPHICS CONTROLLER
208
VIDEO DISPLAY
210
HOST BUS
MODEM
216
NIC
218
HCA
220
100
140
NETWORK ROUTER
TCA
240
SWITCH
130
TCA
230
EXTERNAL STORAGE
120
110

FIG. 2

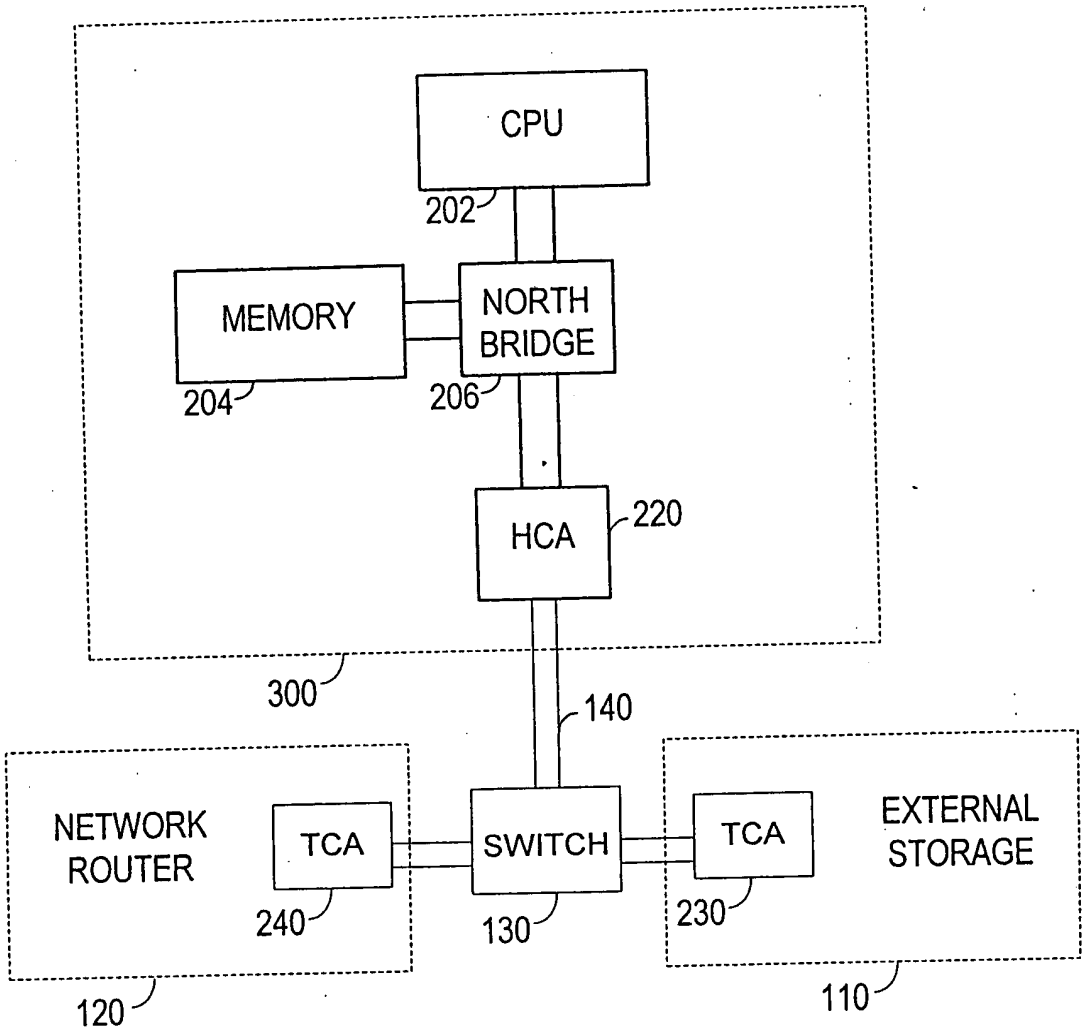
CPU
202
MEMORY
204
NORTH BRIDGE
206
HCA
220
300
140
NETWORK ROUTER
TCA
240
SWITCH
130
TCA
230
EXTERNAL STORAGE
120
110

FIG. 3

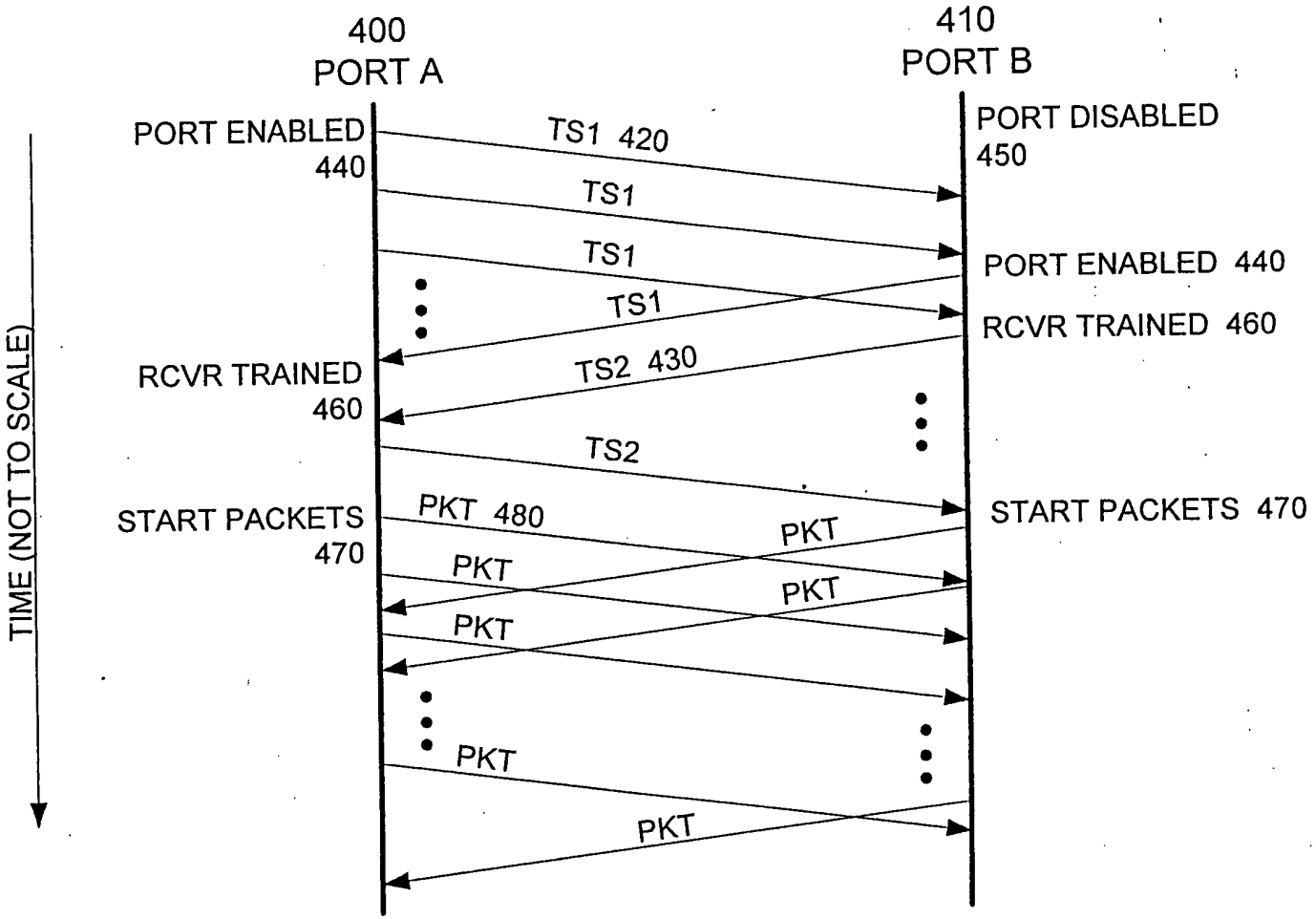
400
PORT A
410
PORT B
PORT ENABLED
440
PORT DISABLED
450
TS1 420
TS1
TS1
PORT ENABLED 440
TS1
RCVR TRAINED 460
RCVR TRAINED
460
TS2 430
TS2
START PACKETS
470
PKT 480
START PACKETS 470
PKT
PKT
PKT
PKT
PKT
PKT
TIME (NOT TO SCALE)

FIG. 4

TRAINING SET 1 (TS1)

COM	COM	COM	COM
LANE 0	LANE 1	LANE 2	LANE 3
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2
D10.2	D10.2	D10.2	D10.2

TRAINING SET 2 (TS2)

COM	COM	COM	COM
LANE 0	LANE 1	LANE 2	LANE 3
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2
D5.2	D5.2	D5.2	D5.2

FIG. 5

Physical Link Lane Identifiers

LANE IDENTIFIER	8B/10B CODE NAME	NEGATIVE RD	POSITIVE RD
LID 0	D0.0	10011 10100	01100 01011
LID 1	D1.0	01110 10100	10001 01011
LID 2	D2.0	10110 10100	01001 01011
LID 3	D4.0	11010 10100	00101 01011
LID 4	D8.0	11100 10100	00011 01011
LID 5	D15.0	01011 10100	10100 01011
LID 6	D16.0	01101 10100	10010 01011
LID 7	D23.0	11101 00100	00010 11011
LID 8	D24.0	11001 10100	00110 01011
LID 9	D27.0	11011 00100	00100 11011
LID 10	D29.0	10111 00100	01000 11011
LID 11	D30.0	01111 00100	10000 11011

FIG. 6

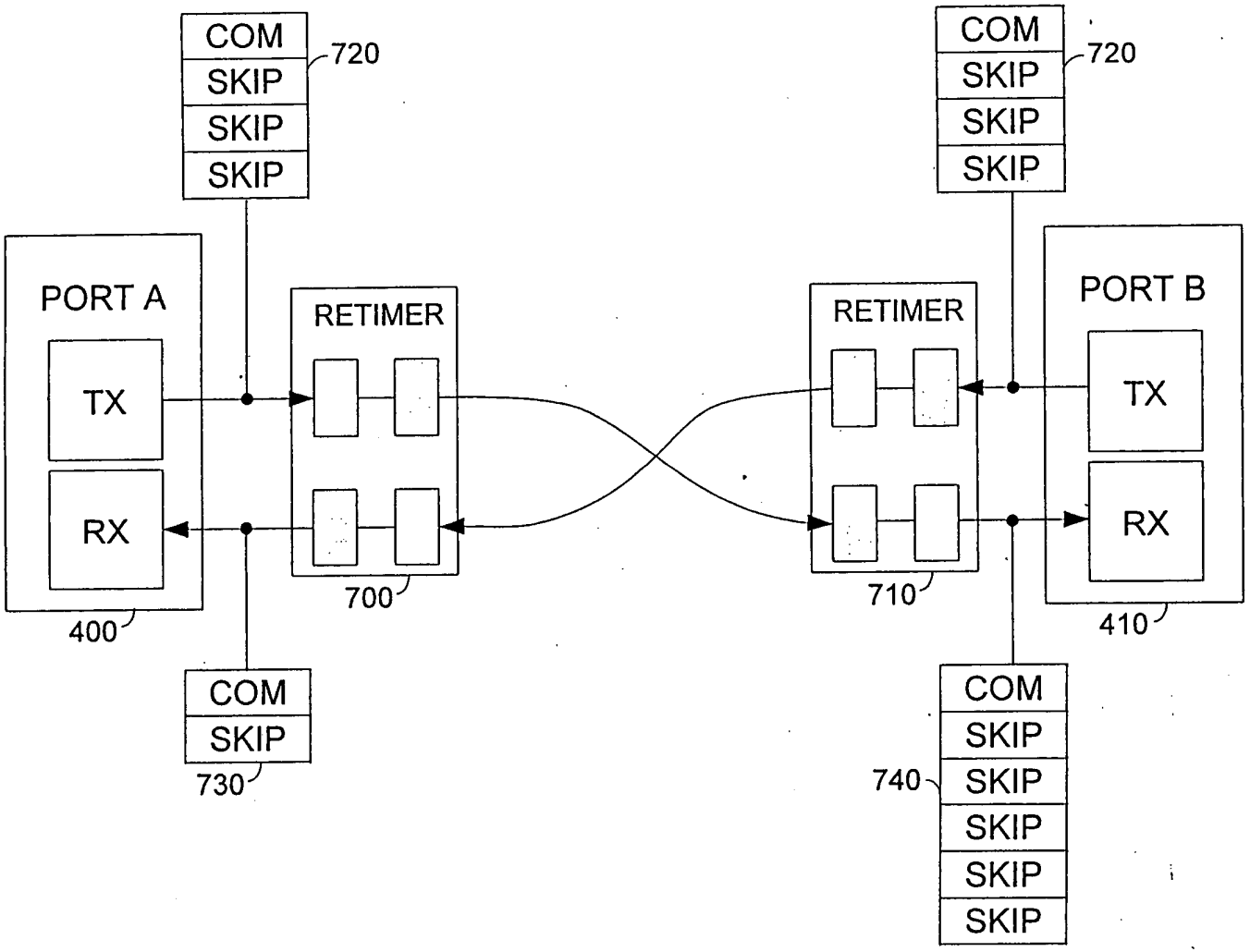
COM
SKIP
SKIP
SKIP
720
PORT A
TX
RX
400
RETIMER
700
COM
SKIP
730
COM
SKIP
SKIP
SKIP
720
RETIMER
710
PORT B
TX
RX
410
COM
SKIP
SKIP
SKIP
SKIP
SKIP
740

FIG. 7

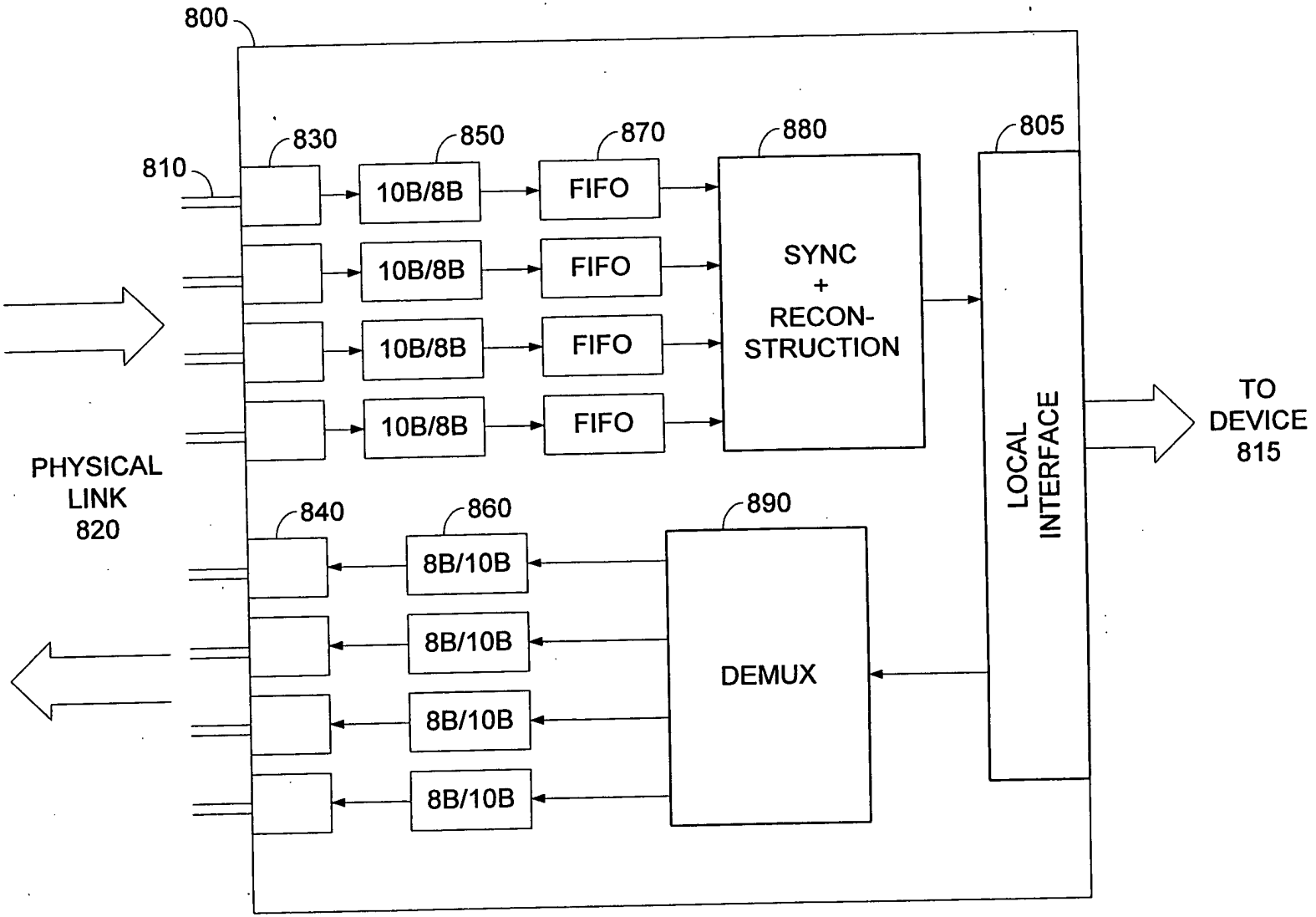
800
810
830
850
870
880
805
10B/8B
10B/8B
10B/8B
10B/8B
FIFO
FIFO
FIFO
FIFO
SYNC
+
RECON-
STRUCTION
LOCAL
INTERFACE
TO
DEVICE
815
PHYSICAL
LINK
820
840
860
890
8B/10B
8B/10B
8B/10B
8B/10B
DEMUX

FIG. 8

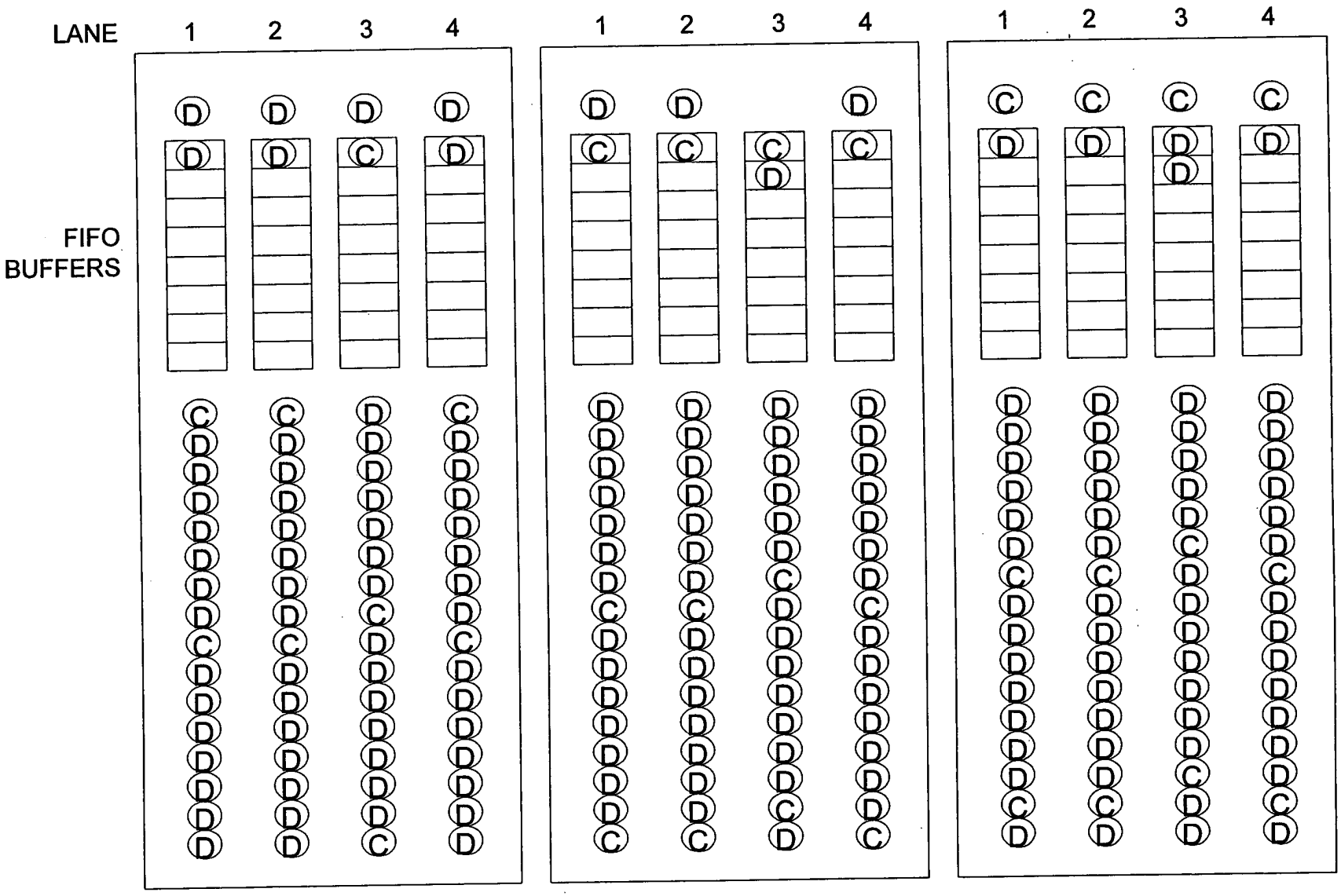

FIG. 9